

# Curriculum Vitae

## 1. Personal Data

Name: Filip G. Kondev  
Current Address: Physics Division  
Argonne National Laboratory  
9700 South Cass Avenue  
Argonne, IL 60439, USA  
Telephone: +1 (630) 252 4484 (office)  
Fax: +1 (630) 252 4978 (office)  
E-mail: [kondev@anl.gov](mailto:kondev@anl.gov)

## 2. Education

Ph.D., 1997 Research School of Physical Science and Engineering,  
Australian National University, Canberra, Australia  
Thesis title: "*Interplay between intrinsic and Collective Motion in Tantalum Nuclei*"/Advisor: Prof. G.D. Dracoulis  
Diploma (MSc), 1988 Plovdiv University, Plovdiv Bulgaria  
with Honor Thesis title: "*Study of ( $\gamma, \alpha$ ) Photonuclear Reactions in the Giant Dipole Resonance Region*"/Advisor: Prof. N.P. Balabanov

## 3. Employment

July 2017 - present **Physicist (RD5)**, Physics Division,  
Argonne National Laboratory, Argonne, Illinois, USA  
March 2014 – July 2017 **Physicist (RD5)**, Nuclear Engineering Division,  
Argonne National Laboratory, Argonne, Illinois, USA  
Feb. 2004 – March 2014 **Physicist (RD2-RD4)**, Nuclear Engineering Division,  
Argonne National Laboratory, Argonne, Illinois, USA  
Dec. 2001 – Feb. 2004 **Assistant Physicist (RD1)**, Nuclear Engineering Division,  
Argonne National Laboratory, Argonne, Illinois, USA  
Feb. 1999 – Dec. 2001 **Research Associate**, Physics Division,  
Argonne National Laboratory, Argonne, Illinois, USA  
Feb. 1997 – Jan. 1999 **Research Associate**, Department of Physics,  
Florida State University, Tallahassee, Florida, USA  
Aug. 1993 – Dec. 1996 **Graduate (Ph.D.) Student**, Department of Nuclear Physics,  
Australian National University, Canberra, Australia  
March 1995 – Dec. 1995 **Tutor and Laboratory Demonstrator**, Australian Defense Force  
Academy, University of New South Wales, Canberra, Australia  
Nov. 1988 – May 1993 **Junior Research Fellow**,  
Joint Institute for Nuclear Research, Dubna, Russia

## **4. Areas of Expertise**

<i>Experimental Nuclear Physics</i>	Accelerator-based Nuclear Structure and Reactions Physics; Time-correlated Gamma-ray and Conversion Electron Spectroscopy Techniques; Charged Particles and Heavy-ion Recoils Detection Techniques; Nuclear Isomers; Nuclear Fusion and Fission; Physics with Radioactive Beams; Reactions Induced by Gamma rays, Neutrons, Light Charged Particles and Heavy Ions;
<i>Detector Development and Applications</i>	Highly-segmented Ge Detectors; High-purity Ge Double-Sided Strip Detectors (DSSD); Position-sensitive Si DSSD and PIPS charged particle detectors; Scintillation Detectors (LaBr <sub>3</sub> (Ce), BGO, NaI); Gamma-ray Imaging and Tracking; Criticality Measurements in Cub-critical Nuclear Systems; Gamma-ray and Neutron Activation Analyses; Medical Isotopes Productions and Properties

## **5. Professional Memberships, Refereeing and Conference Organization**

### **Membership and Affiliations**

<i>International collaborations</i>	International Nuclear Structure and Decay Data Network, coordinated by IAEA International Atomic Mass Evaluation collaboration IAEA-CRP “Updated Decay Library for Actinides” IAEA-CRP “Nuclear Data for Charged-particle Monitor Reactions and Medical Isotopes Production” Led, or participated in, a number of international collaborations at major US and foreign nuclear physics research facilities (ANL (USA), MSU (USA), LBNL (USA), FSU (USA), INL (USA), TRIUMF (Canada), RIBF (Japan), GSI (Germany), University of Jyväskylä (Finland), IPN-Orsay (France), ANU (Australia), RNCP, Osaka University (Japan))
<i>User facility</i>	ATLAS & CARIBU (ANL-USA), NSCL (USA), FRIB (USA), RIBF (Japan), TRIUMF (Canada), GAMMASPHERE (USA), GRETINA (USA)
<i>Professional activities</i>	Australian Institute of Physics (1996); American Nuclear Society (2001-2011); American Physical Society (since 1997); U.S. Nuclear Data Program Coordinating Committee (since 2002); GAMMASPHERE User Executive Committee (since 2009)
<i>Technical Advisor</i>	IAEA Nuclear Data Section at the consultant meeting on “Auger electron Emission from Nuclear Decay: Data Needs for Medical Applications”

## Reviewer

<i>Journals</i>	Physical Review C, Physical Review Letters, Nuclear Physics A, Physics Letters B, Journal of Physics G, Nuclear Data Sheets, Applied Radiation and Isotopes, Nuclear Instruments and Methods A and B, Review of Scientific Instruments, Physica Scripta, European Physical Journal A, Modern Phys. Lett. A
<i>Sponsoring Agencies</i>	U.S. DOE, Office of Science, Office of Nuclear Physics U.S. National Science Foundation, Physics Division U.S. DOE, Office of Nuclear Energy U.S. Department of Air Force, Office of Scientific Research UK Science and Technology Facility Council Natural Sciences and Engineering Research Council of Canada
<i>PhD Thesis Reviewer</i>	Dr. S. Chakaborty, Banaras Hindu University, August 2019 Dr. U. Jacobsson, University of Jyvaskyla, October 2013 Dr. A.B.F. Lee, Australian National University, January 2013 Dr. S. Ketelhut, University of Jyvaskyla, December 2010 Dr. S. Kumar, Indian Institute of Technology, March 2008 Dr. T.McGoram, Australian National University, December 2002
<i>PhD Thesis Opponent</i>	Dr. A. Herzan, University of Jyvaskyla, December 2015

## Conference Organization

<i>Organizing committee</i>	<ul style="list-style-type: none"><li>• Workshop on “<i>Nuclear Data Needs and Capabilities for Basic Science</i>”, University of Notre Dame, August 2016 (Co-chair)</li><li>• Workshop on “<i>Nuclear Structure Data Evaluation</i>”, IAEA, Vienna, April 2015 (Co-chair)</li><li>• Workshop on “<i>Nuclear Data Needs and Capabilities for Applications</i>”, LBNL, Berkeley, May 2015</li><li>• Nuclear Data Session at the Joint Division of Nuclear Physics (APS) Town Meetings on “<i>Nuclear Structure and Nuclear Astrophysics</i>”, College Station, TX, September 2014</li><li>• International Conference on “<i>Nuclear Structure 2012</i>” (NS2012), Argonne National Laboratory, August 2012 (Co-chair)</li><li>• Workshop on “<i>Decay Spectroscopy at CARIBU: Advanced Fuel Cycle Applications, Nuclear Structure and Astrophysics</i>”, ANL, April 2011 (Co-chair)</li><li>• International Conference on “<i>Waltzing to the Nuclear Limits</i>”, Hilton Head Island, February 2011</li><li>• International Conference on “<i>Nuclei at the Limits</i>” (NS2004), Argonne National Laboratory, August 2004</li></ul>
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- Advisory and Program committees*
- International Conference on “*Capture Gamma-ray Spectroscopy and Related Topics*” (CGS16), Shanghai, China, September 2017
  - International Conference on “*Dosimetry and Its Applications (ICDA-2)*”, University of Surrey, Guildford, UK, July 2016
  - International Conference on “*Capture Gamma-ray Spectroscopy and Related Topics*” (CGS15), Dresden, Germany, August 2014
  - International Conference on “*Nuclear Data for Science and Technology 2013*” (ND2013), New York, March 2013
  - North American Workshop on “*Beta-delayed Neutron Emission*”, Oak Ridge, Tennessee, May 2013
  - International Workshop on “*Evaluation of Nuclear Structure and Decay Data*” (ENSDD2012), Kolkata, India, November 2012
  - International Workshop on “*Frontiers of Nuclear Data Research*”, Jeddah, Saudi Arabia, September, 2011
  - 14<sup>th</sup> International Symposium on “*Capture Gamma-Ray Spectroscopy and Related Topics*” (CGS14), Guelph, Canada, August 2011
  - International Conference on “*Isomers in Nuclear and Interdisciplinary Research*”, St. Petersburg, Russia, July 2011
  - International Workshop on “*Radioactive Decay Data Evaluation*”, Madrid, Spain, June 2010
  - International Workshop on “*Nuclear Structure and Decay Data Evaluators*” (ENSDF-2009), Bucharest, Romania, March 2009
  - International Workshop on “*Radioactive Decay Data Evaluation*”, Bucharest, Romania, May 2008

## **6. Committees & Honors**

2013-2018	Member	LANSCCE Program Advisory Committee, Los Alamos National Laboratory
2010 - 2012	Coordinator	International DDEP collaboration
since April 2009	Member	GAMMASPHERE User Executive Committee
2008 - 2011	Member	ANL Director Post-Doctoral Committee
since Oct. 2006	Member	ANL Library Committee
since Oct. 2002	Member	U.S. Nuclear Data Program Coordination Committee
since Oct. 2001	PI	ANL Nuclear Data Program

## **7. Awards and Grants**

Since Oct. 2001	~\$413K per year	Office of Science, Office of Nuclear Physics, U.S. DOE/Argonne Nuclear Data Program (PI)
Nov. 2017 – Oct. 2020	\$750K	Office of Science, Office of Nuclear Physics, U.S. DOE & NNSA/NA-22, U.S. DOE, “ <i>Novel Approach for Improving Antineutrino Spectra Predictions for Nonproliferation Applications</i> ” (PI)
Nov. 2017 – Oct. 2022	\$2M	Office of Science, Office of Nuclear Physics, U.S. DOE & NNSA/NA-22, U.S. DOE, “ <i>Experimental Nuclear Data Research at CARIBU</i> ” (Co-PI)
Oct. 2012 – Oct. 2016	\$453K	Australian Research Council, “ <i>Auger-electron yields of medical radioisotopes</i> ” (Co-PI)
Oct. 2011 – Oct. 2013	\$240K	ANL Director Competitive LDRD Grant, “ <i>Development of Close-packed LaBr<sub>3</sub>(Ce) Detector Array for Nuclear Physics Applications</i> ” (Co-PI)
Oct. 2009 – Oct. 2011	\$530K	Australian Research Council, “ <i>Quantum-number purity and limits to the formation of nuclear K isomers</i> ” (Co-PI)
Oct. 2009 – Oct. 2012	\$2M	Office of Science, Office of Nuclear Physics, U.S. DOE competitive grant “ <i>Advanced Fuel Cycle Research at CARIBU</i> ” (Co-PI)
Oct. 2009-Oct. 2011	\$244K	Office of Science, Office of Nuclear Physics, U.S. DOE grant “ <i>Nuclear Data Initiative</i> ” (PI)
Oct. 2009 – Oct. 2012	\$2M	Office of Science, Office of Nuclear Physics, U.S. DOE competitive grant “ <i>Measurement and Evaluation of Actinide Neutron Cross Sections Relevant to Advanced Fuel Cycles via Accelerator Mass Spectroscopy</i> ” (Co-PI)
Oct. 2007 – Oct. 2009	\$300K	ANL Director Competitive LDRD grant, “ <i>Development of Total Absorption Gamma-ray Spectrometer for Advanced Fuel Cycles Applications</i> ” (Co-PI)
Oct. 2003 – Oct. 2005	\$240K	ANL Director Competitive LDRD grant, “ <i>Development of GeDSSD for Nuclear Imaging Applications</i> ” (Co-PI)

## **8. Professional Staff Supported**

Post-doctoral Associates	Dr. Patrick Copp	2018-present
	Dr. Jun Chen	2012-2014
	Dr. Chithra Nair	2010-2012

Dr. Gulhan Gurdal	2009-2011
Dr. Christopher Chiara	2008-2009
Dr. Shaofei Zhu	2006-2007

<i>Visiting Scholars</i>	Dr. Suresh Kumar	2013-2014
	Dr. Stefan Lalkovski	2013,2011,2009,2005
	Dr. Sefa Eraturk	2013
	Dr. Daryl Hartley	2011
	Dr. Alan Nichols	2011, 2009
	Dr. Yuri Khazov	2009
	Dr. Gopal Mukherjee	2008
	Dr. Tsanka Venkova	2008
	Dr. Ken Leszczynski	2007
	Dr. Alan B. Smith	2004-2012

<i>Undergraduate Students</i>	Mr. Nicolas Savard	2013
	Mr. Joshua Modica	2012
	Mr. William Murrey	2010-2011
	Mr. Michael Smith	2008,2010